

Serial No. 09/996,074
Page 7 of 21

IN THE CLAIMS

Please consider the claims as follows:

1. (currently amended) A method for streaming content striped in RAID 5 format from an array of disk drives to a plurality of subscribers to minimize disruptive service from a disk drive failure, said method comprising:
 - accessing content data on an extent-by-extent basis from a plurality of disk drives configured in an array;
 - streaming the content data to the plurality of subscribers on an extent-by-extent basis, sequentially, from the plurality of disk drives;
 - detecting an actual disk drive failure;
 - transitioning to a stream regeneration mode of operation comprising:
 - reading the content data ~~substantially~~
simultaneously/contemporaneously from all extents in a parity group
associated with a failed disk drive;
 - regenerating a failed portion of the content data from a failed extent in the parity group corresponding to the failed disk drive; and
 - streaming the content data in the parity group to the plurality of subscribers, extent-by-extent, immediately following the regenerating of the content data from the failed extent in the parity group.
2. (original) The method of claim 1, further comprising disallowing content loads upon detecting the actual disk drive failure.
3. (original) The method of claim 1, further comprising migrating at least one subscriber to a non-failed disk drive array.
4. (original) The method of claim 1, further comprising migrating content to a non-failed disk drive array.

283912-1

Serial No. 09/996,074

Page 8 of 21

5. (original) The method of claim 1, further comprising:
sensing installment of a replacement disk drive; and
rebuilding the content data thereon.
6. (original) The method of claim 5, further comprising allowing content loads
on the replacement disk drive.
7. (original) The method of claim 6, wherein after said rebuilding step, the
method further comprises:
accessing the content data on an extent-by-extent basis from the plurality
of disk drives configured in the RAID 5 format; and
streaming the content data to the plurality of subscribers on an extent-by-
extent basis, sequentially, from the plurality of disk drives.
8. (original) The method of claim 7, further comprising load-balancing the
content data between additional disk drive arrays.
9. (original) The method of claim 7, further comprising load-balancing the
streams to the plurality of subscribers between additional disk drive arrays.
10. (original) The method of claim 1, wherein the regenerating step further
comprises initiating a data regeneration mode of operation comprising writing, as a low
priority task, recovered content data to spare extents on non-failed disk drives in the
array.
11. (original) The method of claim 10, wherein once the regenerated content
data has been written to the spare extents, initiating a recovery-carousel-serving mode
of operation comprising streaming psuedo-sequentially, extent-by-extent, content data
of each parity group to the plurality of subscribers, where the regenerated content data
in a spare extent of each parity group is streamed out of sequence.

283912-1

Serial No. 09/996,074

Page 9 of 21

12. (original) The method of claim 11, further comprising:
 - sensing installment of a replacement disk drive; and
 - writing the regenerated content data from the spare extents on the non-failed disk drives of the array to the replacement disk drive.
13. (original) The method of claim 12, wherein after said writing step, the method further comprises:
 - accessing content data on an extent-by-extent basis, sequentially, from the plurality of disk drives configured in the RAID 5 format; and
 - streaming content data to the plurality of subscribers on an extent-by-extent basis, sequentially, from the plurality of disk drives.
14. (original) The method of claim 13, further comprising allowing content loads on the replacement disk drive.
15. (original) The method of claim 14, further comprising load-balancing the content data between additional disk drive arrays.
16. (original) The method of claim 14, further comprising load-balancing the streams to the plurality of subscribers between additional disk drive arrays.
17. (currently amended) A method for streaming content striped in RAID 5 format from an array of disk drives to a plurality of subscribers to minimize disruptive service from a disk drive failure, said method comprising:
 - accessing content data on an extent-by-extent basis from a plurality of disk drives configured in an array;
 - streaming the content data to the plurality of subscribers on an extent-by-extent basis, sequentially, from the plurality of disk drives;
 - predicting a disk drive failure;

283912-1

Serial No. 09/996,074
Page 10 of 21

writing content data from ~~a~~ the disk drive predicted to fail to spare extents on non-failed disk drives in the array;

detecting at least one of an actual failure and removal of the disk drive predicted to fail;

transitioning, in response to the detecting step, a recovery-carousel-serving mode of operation comprising:

streaming psuedo-sequentially, extent-by-extent, content data of each parity group to the plurality of subscribers, where the regenerated content data in a spare extent of each parity group is streamed out of sequence;

wherein in an instance where the disk drive predicted to fail fails prior to said writing step, said method further comprises

transitioning to a stream regeneration mode of operation comprising:

reading the content data contemporaneously from all extents in a parity group;

regenerating a failed portion of the content data from a failed extent in the parity group corresponding to the failed disk drive; and

streaming the content data in the parity group to the plurality of subscribers, extent-by-extent, immediately following the regenerating of the content data from the failed extent in the parity group.

18. (original) The method of claim 17, wherein the detecting step further comprises monitoring disk drive performance data selected from the group consisting of a sufficiently high frequency of failed read attempts, a control signal produced by a disk failing, a thermal profile, a disk drive manufacturer detection software signal, and disk access times exceeding a predetermined threshold value.

19. (canceled)

Serial No. 09/996,074

Page 11 of 21

20. (original) The method of claim 17, further comprising migrating at least one subscriber to a non-failed disk drive array.

21. (original) The method of claim 17, further comprising migrating content to a non-failed disk drive array.

22. (original) The method of claim 17, further comprising disallowing content loads upon detecting the actual failure of the disk drive predicted to fail.

23. (original) The method of claim 17, further comprising:
sensing installment of a replacement disk drive; and
writing the regenerated content data from the spare extents on the non-failed disk drives of the array to the replacement disk drive.

24. (original) The method of claim 23, wherein after said writing step, the method further comprises:
accessing content data on an extent-by-extent basis, sequentially, from the plurality of disk drives configured in the RAID 5 format; and
streaming content data to the plurality of subscribers on an extent-by-extent basis, sequentially, from the plurality of disk drives.

25. (original) The method of claim 23, further comprising allowing content loads on the replacement disk drive.

26. (original) The method of claim 24, further comprising load-balancing the content data between additional disk drive arrays.

27. (original) The method of claim 24, further comprising load-balancing the streams to the plurality of subscribers between additional disk drive arrays.

283912-1

Serial No. 09/996,074

Page 12 of 21

28. (new) The method of claim 1, further comprising, forming said disk drives into a plurality of parity groups, each parity group comprising contiguous data extents and a single parity extent striped across said disk drives, wherein said data extents and parity extent of said parity groups are spatially distributed across the disk drives of said array.

29. (new) The method of claim 28, wherein each parity group further comprises a spare extent being spatially distributed across said disk drives of said array.

30. (new) The method of claim 29, further comprising:
striping said data extents contiguously across a first portion of said disk drive of said array;
forming said single parity extent in a disk drive adjacent to said data extents; and
providing said spare extent in a disk drive of said array adjacent to said parity extent.

283912-1

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